

Appendix A  
Pending Claims

1. A microscope slide composition comprising:
  - a) a substrate with a surface comprising discrete sites, said sites separated by a distance of less than 50 mm, wherein said substrate is formatted to the dimensions of a microscope slide; and
  - b) a population of microspheres comprising at least a first and a second subpopulation, wherein said first subpopulation comprises a first bioactive agent and said second subpopulation comprises a second bioactive agent wherein said microspheres are randomly distributed on said surface.
2. A composition according to claim 1, wherein said sites are separated by a distance of less than 25 mm.
3. A composition according to claim 1, wherein said sites are separated by a distance of less than 15 mm.
4. A composition according to claim 1, 2 or 3, wherein said sites are separated by a distance of at least about 5 mm.
6. (Amended) The composition according to claim 1, wherein the distance between centers of a first and second microsphere of said first subpopulation is at least 5 mm.
7. The composition according to claim 6, wherein the distance between said first and

second microsphere of said first subpopulation is less than about 100 mm.

8. (Amended) A composition according to claim 1, wherein said substrate further comprises first and second assay locations, wherein said first and second subpopulations are distributed in said first and second assay locations.

9. A composition according to claim 8, wherein the distance between a first and second microsphere of said first subpopulation is less than about 100 mm.

10. A composition according to claim 9, wherein the distance between a first and second member of said first subpopulation is less than about 50 mm.

11. A composition according to claim 9, wherein the distance between a first and second member of said first subpopulation is less than about 15 mm.

12. A composition according to claim 9, 10 or 11, wherein the distance between said first and second member of said first subpopulation is at least about 5 mm.

18. A method for making a microscope slide composition comprising:

a) providing a substrate with a surface comprising discrete sites, said sites separated by a distance of less than 50 mm, wherein said substrate is formatted to the dimensions of a microscope slide; and

b) randomly distributing population of microspheres comprising at least a first and a second subpopulation, wherein said first subpopulation comprises a first

bioactive agent and said second subpopulation comprises a second bioactive agent.

19. The method according to claim 18 wherein said wells are separated by a distance of less than 25 mm.

20. The method according to claim 18, wherein said wells are separated by a distance of less than 15 mm.

21. The method according to claim 18, wherein the ratio of said first and said second subpopulation is at least 1: 36.

22. The method according to claim 18, wherein the ratio of said first and said second subpopulation is at least 1: 100.

23. The method according to claim 18, wherein the distance between the centers a first and second microsphere of said first subpopulation is at least 5 mm.

24. The method according to claim 18, wherein the distance between the centers of a first and second microsphere of said first subpopulation is at least 15 mm.

25. The method according to claim 18, wherein the distance between a first and second microsphere of said first subpopulation is at least 50 mm.

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## Appendix B

### Marked-up Version of the Claims

6. The composition according to claim 1 [or 5], wherein the distance between centers of a first and second microsphere of said first subpopulation is at least 5 mm.

8. A composition according to claim 1 [or 5], wherein said substrate further comprises first and second assay locations, wherein said first and second subpopulations are distributed in said first and second assay locations.